

CLAIMS

09734970-120800

1. System for the simulation and predictive analysis of the evolution of a hair region of the dermis of a subject over time, characterized in that it comprises a means of observation of the said hair region able to output digital observation data, a first digital data processing means capable of classifying the hairs of the said region on the basis of the observation data and of external data, a second digital data processing means capable of simulating the evolution of the hairs as a function of the data emanating from the first digital data processing means, and a means of displaying the data emanating from the second digital data processing means, the data output by the first digital data processing means comprising at least one classification according to the diameter of the hairs.

2. System according to Claim 1, characterized in that the data output by the first processing means furthermore comprise a classification of the hairs according to whether they belong to the Telogen, Anagen or Disappeared phases.

A 3. System according to Claim 1 ~~or 2~~, characterized in that the external data comprise at least the age of the subject. *Claim 1*

4. System according to ~~any one of the preceding claims~~, characterized in that the second processing means is capable of calculating the proportion A of hairs in the Anagen phase. *Claim 1*

A 30 5. System according to ~~any one of the preceding claims~~, characterized in that the second processing means is capable of calculating and forecasting the surface density of hairs, the proportion T of hairs in the Telogen phase, the proportion D of Disappeared hairs, and the individual rate of growth of the hairs. *Claim 1*

A 6. System according to ~~any one of the preceding claims~~, characterized in that it comprises a means for performing a third processing for simulating the evolution of the entire head of hair of the subject on

the basis of the data emanating from the second processing.

7. System according to claim 6, characterized in that it comprises a means for associating data simulating the evolution of the face with the data emanating from the third processing.

8. Process for the simulation and predictive analysis of the evolution of a hair region of the scalp of a subject over time, in which:

10 - the said hair region is observed so as to provide digital observation data,

15 - a first digital processing of the observation data is performed so as to classify hairs of the said hair region on the basis of the observation data and of external data,

- a second digital processing is performed so as to perform a simulation of the temporal evolution of the said hairs as a function of the data emanating from the first digital processing, and

20 - data emanating from the second digital processing are displayed, the data output by the first processing means comprising at least one classification according to the diameter of the hairs.

9. Process according to Claim 8, in which at least one observation is performed, each observation being preceded by a step of shaving the said hair region, the shaving step being separated from the corresponding observation by a first given duration.

10. Process according to Claim 9, in which at least two observations are performed, separated by a second given duration.

Claim 8
A 11. Process according to ~~any one of Claims 8 to 10,~~ in which, on the basis of the observation data, the hair coverage is calculated as a function of the number, the diameter and the length or the rate of growth of the hairs.

Claim 9
A 12. Process according to ~~any one of Claims 8 to 11,~~ in which a third processing is performed so as to perform a simulation of the evolution of the entire head of hair

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of the subject on the basis of the data emanating from the second processing and the data emanating from the third processing are displayed.

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